

AMENDMENTS TO THE SPECIFICATION

Please delete the paragraph on page 6, lines 6-11 and replace it with the following paragraph:

Concretely, examples of commercially available synthetic adsorbents include high porous styrene type synthetic adsorbents having bromine chemically substituted (sold under the trademark DIAION SP207), high porous styrene type synthetic adsorbents (sold under the trademarks (DIAION SP700, DIAION SP825, DIAION SP850), methacrylic synthetic adsorbents (sold under the trademark DIAION HP2MG) (Mitsubishi Chemical co.), macroreticularly cross-linked aromatic polymers (sold under the trademarks AMBERLITE XAD 4 and AMBERLITE XAD 1600T), macroreticularly cross-linked aliphatic polymers (sold under the trademark AMBERLITE XAD 7), AMBERLITE XAD 1600T, carbonaceous synthetic adsorbents comprising a high porosity styrene/divinyl benzene ion exchange resin (sold under the trademarks AMBERSORB 563, AMBERSORB 572, AMBERSORB 600) (ROHM and HAAS co.), and high porous styrene/divinyl polymers (sold under the trademarks Lewatit VP OC 1064, Lewatit VP OC 1066 and Lewatit EP 63 LEWATIT VP OC 1064, LEWATIT VP OC 1066 AND LEWATIT EP 63) (Bayer co.).

Please delete the paragraph on page 7, lines 6-14 and replace it with the following paragraph:

Concretely, the resins includes, among the commercially available, ~~DIAION SK1B, DIAION PK216, DIAION CR11, DIAION CR20, DIAION UBK555 (Mitsubishi~~

Chemical co.), TRILITE SPC 160H, TRILITE SPC 180H, TRILITE SPC 400LH (Samyang co.), AMBERLITE 200C Na, AMBERLITE CG50, AMBERLITE CR1310 Na, AMBERJET 200H, AMBERLYST 131 WET, AMBERLYST 232 WET (ROHM and HAAS co.), LEWATIT VP OC 1800, LEWATIT VP OC 1812, LEWATIT MDS1368 NA, LEWATIT K1221 Lewatit VP OC 1800, Lewatit VP OC 1812, Lewatit MDS1368 Na, Lewatit K1221 (Bayer co.), PUROLITE PCR833CA, PUROLITE C145 (Purolite co.), MFG 210 and MFG 250 (Finex co.) gel-type cation exchange resins (sold under the trademarks DIAION SK1B, DIAION UBK555 (Mitsubishi Chemical co.), AMBERLITE CR1310 NA, AMBERJET 200H (Rohm & Haas co.), LEWATIT VP OC 1800, LEWATIT MDS1368 NA (Bayer co.), PUROLITE PCR833CA (Purolite co.), MFG 210 and MFG 250 (Finex co.)), porous-type cation exchange resins (sold under the trademarks DIAION PK216 (Mitsubishi Chemical co.), AMBERLITE 200C NA, AMBERLITE CG50 (Rohm & Haas co.), LEWATIT VP OC 1812 (Bayer co.), and PUROLITE C145 (Purolite co.)), gel-type catalytic resins (sold under the trademarks AMBERLYST 131 WET, AMBERLYST 232 WET (Rohm & Haas co.) and LEWATIT K1221 (Bayer co.)), porous-type catalytic resins (sold under the trademarks TRILITE SPC 160H, TRILITE SPC 180H and TRILITE SPC 400LH (Samyang co.)), and porous-type chelate resins (sold under the trademarks DIAION CR11 and DIAION CR20 (Mitsubishi Chemical co.)).

Please delete the paragraph on page 8, lines 16-21 and replace it with the following paragraph:

The reversed phase resin which can be used in the method according to the present

invention comprises silica containing non-polar side chain having 1 to 18 carbon and having a particle size of 15 to 150 μm . Examples of the reversed phase resin which can be preferably used in the present invention include a reversed phase resin comprising a silica-containing non-polar side chains with 18 carbons and a particle size of 15 to 30 μm (sold under the trademark SK-GEL ODS S-15/30, (Soken co.)), a reversed phase resin comprising silica-containing non-polar side chains with 18 carbons and a particle size of 35 to 75 μm (sold under the trademark FLASH KP-C18-HS Flash KP-C18-HS (Biotage co.)), a reversed phase resin comprising a silica-containing non-polar side chains with 18 carbons and a particle size of 60 to 63 μm (sold under the trademark DAISOGEL 3001A (Daiso co.)) and a reversed phase resin comprising a silica-containing non-polar side chains with 1 carbon and a particle size of 75 to 150 μm (sold under the trademark DMS DM 1020 (Shiseido co.)).

Please delete the paragraph on page 10, lines 10-11 and replace it with the following paragraph:

[Example 1] Pre-purification of Teicoplanin A_2 Using a Synthetic Adsorbent (sold under the trademark AMBERLITE XAD 1600T) and a chelate resin (sold under the trademark AMBERLYST 232 WET)

Please delete the paragraph on page 10, lines 12-13 and replace it with the following paragraph:

Teicoplanin A_2 was pre-purified using the synthetic adsorbent (sold under the

trademark AMBERLITE XAD 1600T) and the chelate resin (sold under the trademark AMBERLYST 232 WET)

Please delete the paragraph on page 10, lines 16-19 and replace it with the following paragraph:

For the primary pre-purification step, 150 ml of the synthetic adsorbent (sold under the trademark AMBERLITE XAD 1600T (ROHM and HAAS co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm and the culture filtrate was loaded on the column at a flow rate of 2.5 ml/min.

Please delete the paragraph on page 11, lines 6-10 and replace it with the following paragraph:

100 ml of the chelate resin (sold under the trademark AMBERLYST 232 WET (ROHM and HAAS co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm. The column was washed with sodium hydroxide and then acetic acid solution to equilibrate the resin. Purified water was eluted through the column and the eluent was checked to pH 6.45.

Please delete the paragraph on page 12, lines 1-2 and replace it with the following paragraph:

[Example 2] Pre-purification of Teicoplanin A₂ Using Synthetic Adsorbent (sold under the trademark LEWATIT Lewatit VP OC 1064) and Catalytic Resin (sold under the trademark TRILITE SPC 400LH)

Please delete the paragraph on page 12, lines 3-4 and replace it with the following paragraph:

Teicoplanin A₂ was pre-purified using the synthetic adsorbent (sold under the trademark LEWATIT Lewatit VP OC 1064) and the catalytic resin (sold under the trademark TRILITE SPC 400LH).

Please delete the paragraph on page 12, lines 7-10 and replace it with the following paragraph:

For the primary pre-purification step, 150 ml of the synthetic adsorbent (sold under the trademark LEWATIT Lewatit VP OC 1064 (Bayer co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm and the culture filtrate was loaded on the column at a flow rate of 2.5 ml/min.

Please delete the paragraph on page 12, lines 20-24 and replace it with the following paragraph:

100 ml of the catalytic resin (sold under the trademark TRILITE SPC 400LH (Samyang co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm. The column was washed with sodium hydroxide and then, diluted hydrochloric acid solution to equilibrate the resin. Purified water was eluted through the column and the eluent was checked to pH 5.87.

Please delete the paragraph on page 13, lines 15-17 and replace it with the following paragraph:

{Example 3} Preparation of High Purity Teicoplanin A₂ Purification Solution Using a Synthetic Adsorbent (sold under the trademark DIAION HP2MG), a Chelate Resin (sold under the trademarks DIAION CR11) and a reversed phase resin (sold under the trademark KP-C18-HS Reverse Reversed Phase Resin FLASH 75M Cartridge)

Please delete the paragraph on page 13, lines 22-25 and replace it with the following paragraph:

For the primary pre-purification step, 8 l of the synthetic adsorbent (sold under the trademark DIAION HP2MG (Mitsubishi Chemical co.)) was packed in a chromatography column having a diameter of 16 cm and a length of 40 cm and the culture filtrate was loaded on the column at a flow rate of 133 ml/min.

Please delete the paragraph on page 14, lines 10-14 and replace it with the following paragraph:

100 ml of the chelate resin (sold under the trademark DIAION CR11 (Mitsubishi Chemical co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm. The column was washed with sodium hydroxide and then acetic acid solution to equilibrate the resin. Purified water was eluted through the column and the eluent was checked to pH 6.49.

Please delete the paragraph on page 15, lines 1-6 and replace it with the following paragraph:

The sample solution was loaded on the reversed phase resin (sold under the trademark KP-C18-HS reversed phase resin FLASH 75M cartridge (Biotage co.)) at a flow rate of 100 ml/min. The column was washed with purified water at room temperature and purified water containing 27% acetonitrile was eluted through the column. The column used in the above procedure was regenerated with 900 ml of 90% methanol and washed with 1000 ml of purified water.

Please delete the paragraph on page 15, lines 15-18 and replace it with the following paragraph:

[Example 4] Preparation of High Purity Teicoplanin A₂ Purification Solution and Powder Thereof Using a Synthetic Adsorbent (sold under the trademark DIAION HP2MG), Cation Exchange Resin (sold under the trademark PUROLITE C145) and Reversed Phase Resin (sold under the trademark SK-GEL ODS S15/30)

Please delete the paragraph on page 15, lines 19-21 and replace it with the following paragraph:

A high purity teicoplanin A₂ purification solution and powder thereof were prepared using the synthetic adsorbent (sold under the trademark DIAION HP2MG), the cation exchange resin (sold under the trademark PUROLITE C145) and reversed phase resin (sold under the trademark SK-GEL ODS S-15/30).

Please delete the paragraph on page 15, lines 22-25 and replace it with the following paragraph:

The primary pre-purification was performed using the synthetic adsorbent (sold under the trademark DIAION HP2MG), as described in Example 3. Next, for the secondary pre-purification, 190 ml of a sample solution containing about 1.15 g of teicoplanin A₂ was prepared.

Please delete the paragraph on page 16, lines 1-5 and replace it with the following paragraph:

100 ml of the cation exchange resin (sold under the trademark PUROLITE C145 (Purolute co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm. The column was washed with sodium hydroxide and then acetic acid solution to equilibrate the resin. Purified water was eluted through the column and the eluent was checked to pH 5.55.

Please delete the paragraph on page 16, lines 17-22 and replace it with the following paragraph:

200 g of the reversed phase resin (sold under the trademark SK-GEL ODS S-15/30 (Soken co.)) was packed in a preparative HPLC column of NovaPrep 200 (Merck co.). The sample solution was loaded on the column at a flow rate of 50 ml/min. The column was washed with purified water at room temperature and purified water containing 23% acetonitrile was eluted through the column. The column used in the above procedure was regenerated with 300 ml of 90% methanol and washed with

500 ml of purified water.

Please delete the paragraph on page 17, lines 4-9 and replace it with the following paragraph:

100 ml of the synthetic adsorbent (sold under the trademark DIAION HP2MG (Mitsubishi Chemical co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm. The sample solution was loaded on the column at room temperature at a flow rate of 1.6 ml/min. Then, the column was washed with purified water at room temperature and purified water containing 60% acetonitrile was eluted through the column. The column used in the above procedure was washed with 300 ml of purified water.

Please delete the paragraph on page 17, lines 13-16 and replace it with the following paragraph:

[Example 5] Preparation of High Purity Teicoplanin A₂ Purification Solution and Powder Thereof Using a Synthetic Adsorbent (sold under the trademark DIAION HP2MG), a Chelate Resin (sold under the trademark DIAION CR11) and a Reversed Phase Resin (sold under the trademark SHISEIDO DMS DM 1020)

Please delete the paragraph on page 17, lines 17-19 and replace it with the following paragraph:

A high purity teicoplanin A₂ purification solution and powder thereof were prepared using the synthetic adsorbent (sold under the trademark DIAION HP2MG), the

chelate resin (sold under the trademark DIAION CR11) and the reversed phase resin (sold under the trademark SHISEIDO DMS DM 1020).

Please delete the paragraph on page 17, lines 20-24 and replace it with the following paragraph:

The primary pre-purification was performed using the synthetic adsorbent (sold under the trademark DIAION HP2MG), as described in Example 3 and the secondary pre-purification was also performed using the chelate resin (sold under the trademark DIAION CR11), as described in Example 3 subsequently, for the final purification, a sample Solution containing about 11 g of teicoplanin A₂ was prepared.

Please delete the paragraph on page 18, lines 1-8 and replace it with the following paragraph:

610 ml of the reversed phase resin (sold under the trademark SHISEIDO DMS DM 1020 (100-200 mesh, Shiseido Fine Chemical co.)) was packed in a chromatography column having a diameter of 4.8 cm and a length of 80 cm. The sample solution was loaded on the column at room temperature at a flow rate of 5.1 ml/min. Then, the column was washed with purified water at room temperature and purified water containing 25% acetonitrile was eluted through the column. The column used in the above procedure was regenerated with 1200 ml of 90% methanol and washed with 1800 ml of purified water.

Please delete the paragraph on page 18, lines 15-21 and replace it with the following paragraph:

100 ml of the reversed phase resin (sold under the trademark SHISEIDO DMS DM 1020 (100-200 mesh, Shiseido Fine Chemical co.)) was packed in a chromatography column having a diameter of 4 cm and a length of 12 cm. The sample solution was loaded on the column at room temperature at a flow rate of 0.8 ml/min. Then, the column was washed with purified water at room temperature and purified water containing 70% acetone was eluted through the column. The column used in the above procedure was washed with 300 ml of purified water.